

Beyond Lithium-Ion: The Search for Better Energy Storage in Hybrid Vehicles

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Ever wondered why your hybrid car's battery feels like a picky eater at an all-you-can-store energy buffet? As the alternative energy storage system for hybrid electric vehicles becomes the industry's holy grail, engineers are racing to develop solutions that could make today's lithium-ion batteries look like flip phones in the smartphone era. Let's pop the hood and explore what's charging the future of HEV energy storage.

The Current State of Hybrid Energy Storage

While lithium-ion batteries currently dominate the hybrid vehicle market (powering over 90% of HEVs according to IDTechEx), researchers are chasing alternatives that could overcome three critical limitations:

Energy density plateaus (most current batteries store

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